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Support for AppleWorks and ///EZ Pieces Users

Important New AppleWorks Developments

Last September we suggested that this would be an exciting year for AppleWorks users. We have not been disappointed. For example, this time last year, there were no TimeOut enhancements, no Zip Chip, and no GS TransWarp and RamKeeper products, to name just a few of this year's developments that affect AppleWorks users.

Now there are two important announcements from Claris Corporation that will affect the AppleWorks community: The release of the first update of AppleWorks since it was acquired by the company, and Claris' acquisition of StyleWare, the developers of GSWorks. Both of these developments are significant to the AppleWorks community. They reflect Claris' recognition of the importance of their Apple II products and a corporate commitment to develop and enhance their products for the Apple II market.

Although the introduction of AppleWorks 2.1 is not a major revision of AppleWorks, it reflects Claris' willingness to devote the corporate resources necessary to improve their most popular product. Version 2.1 is the first in a series of steps in the development of AppleWorks under the Claris banner. AppleWorks users should applaud the company's decision to provide this update at no charge to all registered users of AppleWorks 2.0. (Version 2.1 of AppleWorks is described in detail starting on page 7 of this issue of the *AppleWorks Forum*.)

Claris Introduces AppleWorks GS

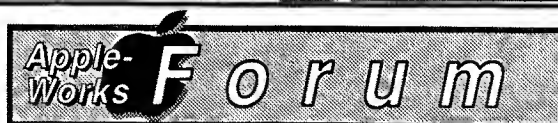
The acquisition of StyleWare and the renaming of GSWorks to AppleWorks GS is of even greater significance to the AppleWorks community. AppleWorks GS is a full-featured, integrated program that takes advantage of the speed and graphics capabilities of the Apple IIGS computer. The program has six modules, including a word processor

with a built-in spell checker and thesaurus, a data base with features that are not available in the AppleWorks data base, a spreadsheet with built-in business graphics routines, a rudimentary page layout module, graphics capabilities that let you incorporate "paint" and "draw" images in any document, and a communications module that integrates easily with AppleWorks GS' word processor.

Claris expects to release AppleWorks GS by the end of this year. However, that will be a challenge. Judging from the number of times GSWorks locked up the IIGS system at AppleFest, significant work remains to be done on the product. Claris is working hard to gain a reputation as a conservative company that brings bug-free products to market, and they will not want to release AppleWorks GS until it meets their standards of quality.

NAUG Support for AppleWorks GS

NAUG eagerly awaits the introduction of AppleWorks GS. We view the product as a logical extension of the current AppleWorks environment and look forward to supporting our many members who will choose to work in AppleWorks GS' graphic-based environment.



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Letters to NAUG

Recovering Files Converted to DOS 3.3

Dear NAUG,

A colleague at my school used Copy II+ to copy some AppleWorks word processor files onto another disk. Then she destroyed the originals. Unfortunately, she didn't notice that the new disk was in DOS 3.3 format.

I used Copy II+ to transfer the files back onto a ProDOS disk, but they are now labelled as binary files in the ProDOS catalog and are unreadable by AppleWorks. How can I make these files usable?

Richard Melpignano
Bellingham, Massachusetts

[Warren Williams replies: ProDOS lets a programmer specify many file types that are not recognized by DOS 3.3. For example, ProDOS differentiates between AppleWorks word processor, data base, and spreadsheet files. All AppleWorks files are stored in binary format; the difference is in the ProDOS file type designator attached to the file when it is saved. Since DOS 3.3 does not recognize these file types, it labels all AppleWorks files as "binary" and loses the distinction between files created with the different AppleWorks modules.]

Although you can use Copy II+ to transfer the AppleWorks files from the DOS 3.3 disk back onto a ProDOS disk, Copy II+ has no way to know the original designator for each file. Therefore, it maintains the DOS 3.3 file type designator of "binary". The data are correctly stored on the ProDOS disk, but you must change the file type designator for those files.

The easiest way to change the designator is with TimeOut FileMaster. Invoke FileMaster, insert the ProDOS data disk in a drive, select "File Activities" from the FileMaster Menu, and select choice #8, "Change file type" from the File Activities Menu. You can then change the designators from Bin (binary) to AWP (AppleWorks Word Processor), ADB (AppleWorks Data Base), or ASP (AppleWorks Spreadsheet). Quit FileMaster, return to the AppleWorks Main Menu, and you will be able to load these files onto your AppleWorks desktop.]

Patch to Change AppleWorks' Cursor

Dear Cathleen:

One of my favorite AppleWorks patches changes the shape of the insert cursor from the blinking underline to a blinking Solid-Apple. Certainly that is appropriate for the #1 Apple software product!

Follow these steps to install this patch:

1. Get into BASIC. (You can get into BASIC from any TimeOut disk or from the System Utilities Disk that came with your computer.)
2. Insert a copy of your AppleWorks Startup Disk in drive 2 and issue the command `CATALOG,D2`.
3. Type the following:

```
BLOAD APLWORKS.SYSTEM,TSYS,AS$2000
CALL -151
2DA1:40
BSAVE APLWORKS.SYSTEM,TSYS,AS$2000
```

If you use UltraMacros, type `APLWORKS.SYS` instead of `APLWORKS.SYSTEM`.

Jim Hirsch
Coon Rapids, Minnesota

NAUG as Peace Maker

Dear Cathleen,

Thank you for sending us ten copies of the *AppleWorks Forum* every month. One issue of the newsletter was never enough. Mark [Simonsen, President of Beagle Bros], myself, and all the programmers were always fighting over it. Now all of us are able to enjoy the great tidbits of news and info that we get from NAUG each month.

Jon Simonsen
Director of Marketing
Beagle Bros

The **National AppleWorks Users Group (NAUG)** is an association that supports AppleWorks users. The group provides technical support and information about AppleWorks and enhancements to that program. Our primary means of communicating with members is through the monthly newsletter entitled the **AppleWorks Forum**.

Using 3.5-Inch Disks with AppleWorks

Dear Cathleen:

A Quick Tip by Sheryl King in the June 1988 issue of the *AppleWorks Forum* describes how to boot your computer either with a copy protected program on a 5.25-inch disk or with AppleWorks on a 3.5-inch disk. However, there are easier ways to achieve this goal.

The best solution is to move your 3.5-inch disk drive controller card from slot 5 to slot 7. This approach works because the 3.5-inch disk controller card is more sophisticated than the 5.25-inch controller.

When your Apple polls a slot containing a 3.5-inch disk controller card, the card starts the disk drive and looks for a bootable disk. If it does not find a bootable disk, it turns off the disk drive and tells your Apple to check the card in the next slot.

The 5.25-inch disk drive controller card does not have that feature. If you do not have a bootable disk in a 5.25-inch disk drive, the disk drive keeps spinning and the Apple never looks elsewhere for a bootable disk.

You probably know that your computer automatically checks the highest slot for a bootable disk. If you put the 3.5-inch disk controller card in slot 7 and the 5.25-inch card in slot 6, the Apple will first check the 3.5-inch disk drive. If that drive does not contain a bootable disk, the computer will automatically check the 5.25-inch disk drive connected to slot 6. With this configuration, you can either put an AppleWorks disk in the 3.5-inch drive, or a copy protected disk in the 5.25-inch drive and start your system from either drive.

Here is another alternative that lets you boot your system from a 3.5-inch disk connected to slot 5: Turn on your computer and press Control-Reset. This stops the slot 6 boot sequence and displays the Applesoft prompt (I). Type PR#5 and press the Return Key. Your computer will now boot from the 3.5-inch disk connected to slot 5.

Finally, it is not necessary to turn your computer off to boot a different disk. Your system will last

longer if you leave the machine turned on continuously and stay away from the on/off switch. There are at least two ways to switch between ProDOS programs without rebooting your computer. One is to use a program selector like ProSel (\$40 postpaid from Glen Bradon, 521 State Road, Princeton, New Jersey 08540) or Bird's Better Bye. [Ed: *Bird's Better Bye* is built into the copy of ProDOS on every TimeOut disk. For more information, see the article entitled "How to Install the New Version of ProDOS" in the February 1988 issue of the *AppleWorks Forum*.]

Another approach is to learn about ProDOS pathnames and enter the correct pathname to start a new program. The normal ProDOS Quit sequence lets you enter a new volume name (e.g., /COPYIPLUS) and program name (e.g., UTIL.SYSTEM) to start Copy II+. Alternatively, from the Applesoft prompt you can enter

`-/COPYIPLUS/UTIL.SYSTEM`

to launch the program.

I find any of these methods preferable to building a "dummy" ProDOS boot disk just to start AppleWorks from the 3.5-inch drive.

Ken Kashmarek
Eldridge, Iowa

Booting from a Hard Disk

Dear NAUG:

I use RamUp to help me manage my Apple IIe computer equipped with a Sider hard disk drive connected to slot 7. Since the hard disk controller card is in slot 7, my computer automatically boots from the hard disk. RamUp includes a program called BOOT.6 that lets me boot the computer from a copy protected 5.25-inch disk connected to slot 6. I can select BOOT.6 whenever I return to RamUp after running a ProDOS program.

Sheryl King's Quick Tip in the June 1988 issue of the *AppleWorks Forum* gave me an idea to also let me quickly reboot the computer from my hard disk drive connected to slot 7. That lets me switch quickly to non-ProDOS volumes on the hard disk. The technique involves creating a program called

BOOT.7 and selecting BOOT.7 from the RamUp Menu to reboot the computer.

Follow these steps to create BOOT.7:

1. Format a blank 5.25-inch disk and name the volume "BOOT.7".
2. Copy the files ProDOS and BASIC.SYSTEM from any disk that contains those files onto BOOT.7.
3. Boot your computer with this new disk. At the Applesoft prompt, type the following:

```
10 PR#7  
SAVE STARTUP
```
4. Create a subdirectory on the hard drive. This must be the same drive that RamUp uses to load your other programs. Mine is HARD1, therefore my new subdirectory is /HARD1/BOOT.7.
5. Copy the files ProDOS, BASIC.SYSTEM, and STARTUP from your BOOT.7 disk into the new subdirectory on your hard disk.
6. Use the RamUp Utilities to add BOOT.7 to the RamUp data base.

Now, when you boot RamUp and select Add Files, BOOT.7 will be one of your choices. Select BOOT.7 when you quit AppleWorks and want to go directly to your hard drive menu. You can then use the CP/M, Pascal, or DOS 3.3 volumes on the disk drive.

Carl Holkeboer
Holland, Michigan

[Ed: BOOT.7 is now included on version 4.0 of RamUp.]

Notice to Members Helping Members Volunteers

AppleLink Personal Edition promises to be a popular online service for owners of Apple computers. If you are a NAUG Members Helping Members volunteer and have an AppleLink PE mail address, please send it to NAUG so we can update our records. Answering AppleWorks questions online makes it easier for colleagues to contact you and can help you budget your time.

Patch to Improve Foreign Language Screen

Dear Cathy,

An article in the May 1988 issue of the *AppleWorks Forum* describes how to use AppleWorks in foreign languages. That article correctly indicates that if you want to display foreign characters on your AppleWorks screen, the file card and Apple-Q menus are a mess. The vertical bar (I) used to create these menus is changed to a character that makes the screens look unnecessarily complex.

Here is a patch that changes the file card and Apple-Q menus so they use an exclamation point instead of a vertical bar. The exclamation point displays correctly in the foreign language character set.

Follow these steps:

1. Use your System Utilities Disk or any TimeOut disk to get into the BASIC language.
2. Insert a copy of your AppleWorks Startup Disk in drive 2 and type CATALOG,D2.
3. Type the following:

```
BLOAD APLWORKS.SYSTEM,TSYS,A$2000  
POKE 768,33  
BSAVE SEG.M1,TO,A$300,L1,B$14B0F  
BSAVE SEG.M1,TO,A$300,L1,B$14B6F  
BSAVE SEG.M1,TO,A$300,L1,B$14BB0  
BSAVE SEG.M1,TO,A$300,L1,B$14C02  
BSAVE SEG.M1,TO,A$300,L1,B$14C05  
BSAVE SEG.M1,TO,A$300,L1,B$15836  
BSAVE SEG.M1,TO,A$300,L1,B$15842
```

Unfortunately, this patch will not change the Tab markers in the AppleWorks word processor; these are still displayed in the foreign character. I did not attempt this change because it would make the file incompatible with other versions of AppleWorks. Even with this patch, a few foreign characters will still pop up when you are creating a new data base or working with a spreadsheet file.

Mark Munz
Fort Lewis, Washington

New! EasyDrive & RAMUP 4.0

The Storage Management Team

If only I had storage management software that could give me complete control of my hard-disk by installing itself onto my hard-disk and then installing my programs automatically . . .

. . . it could have a menu where I could choose the applications I want by just touching a key . . .

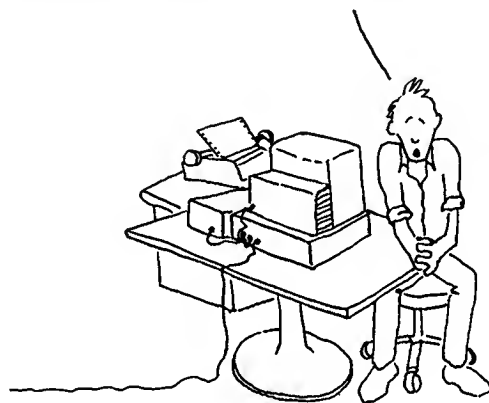
. . . it could run programs, remove programs, back up, restore, index, copy, and other stuff, too, automatically. And it could be incredibly fast and easy to use.

And there could be another program just like it, for my RamCard. It could load my programs onto my RamCard and present them to me on a menu . . . and I could flip from program to program like turning a page . . . and would have great features like autoloader, back up, restore and statistical displays. And it could be incredibly fast and easy to use.

And they could work together to give me the greatest storage management system ever . . .

. . . and come with a manual that could explain ProDOS in a way that even I could understand . . .

. . . and be sold and serviced by friendly people . . . and be affordable . . .



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Claris Releases Free Update to AppleWorks

by Warren Williams

Claris Corporation recently announced the release of version 2.1 of AppleWorks. This update to AppleWorks includes numerous internal improvements and bug fixes; it does not add new commands or functions to the program. Version 2.1 is file-compatible with version 2.0 of AppleWorks; all files generated by one version can be read by the other.

Claris classifies version 2.1 as an “update”, not an “upgrade”. The company wants AppleWorks users to recognize that this is not a major enhancement to the program.

Features of Version 2.1

Version 2.1 offers the following features:

1. Support for up to 8-megabytes of RAM on an Apple IIGs. Until now, users had to purchase products from third-party vendors to get AppleWorks to allocate more than 1-megabyte of RAM for the AppleWorks desktop. That limitation is now removed; version 2.1 lets IIGs owners use their expanded memory to increase the size of their AppleWorks desktops.
2. The ability to store up to 138 files in a subdirectory. Earlier versions of AppleWorks limited users to a maximum of 67 files per subdirectory.
3. “Intelligent recalculation” in the spreadsheet module. Earlier versions of AppleWorks insist on recalculating all cells whenever you make any change in a spreadsheet. Version 2.1 adopts a practice common in stand-alone spreadsheet products; it recalculates a cell only if the value in that cell was affected since the last recalculation.

The impact of this improvement will differ from worksheet to worksheet. Intelligent recalculation will significantly improve the recalculation speed of large worksheets where only a few cells are affected by a new entry (e.g., a checkbook spreadsheet where new checks are added to the bottom of the list). The enhancement will have little impact on small spread-

sheets or spreadsheets where one entry has a major impact on many cells throughout the model (e.g., a loan amortization template where changing the rate of the loan affects almost all cells in the spreadsheet).

4. Version 2.1 fixes numerous bugs and problems. Most significant are the following:
 - A. Version 2.1 is compatible with all Apple IIGs desk accessories. Earlier versions of AppleWorks lock up if certain desk accessories are installed on your system.
 - B. Version 2.0 of AppleWorks can damage some data files if you respond “Yes” to the “Disk is full. Do you want to delete the earlier version of this file?” prompt. Version 2.1 eliminates this problem.
 - C. Version 2.1 lets you enter Control-@ as a printer code when defining a custom printer. Version 2.0 will not let you enter this code.
 - D. Earlier versions of the AppleWorks word processor do not correctly print page numbers greater than 256. Version 2.1 handles higher page numbers.

AppleWorks 2.1 includes many internal improvements and bug fixes; it does not add new commands or functions to the program.

What You Need with AppleWorks 2.1

If you are currently using AppleWorks 2.0 on an Apple IIGs, or a 128K Apple IIe or IIC, you can take version 2.1 out of the package, configure it for your printer, and get to work. But many AppleWorks users enhance AppleWorks to take advantage of expanded memory cards and to add additional features to the program.

If you are using an enhanced copy of AppleWorks, you will need new software if you update to version 2.1. This article will help you get the software you need. In all cases the version numbers of these products are tentative; be certain you request "the version that works with version 2.1 of AppleWorks" when you place your order.

Applied Engineering

Applied Engineering distributes the AW 2 Expander, an enhancement that overcomes the file and clipboard size limitations in AppleWorks.

AppleWorks 2.1 requires that you use version 3.0 or later of the AW 2 Expander. An update to version 3.0 of the AW 2 Expander is available at no charge from most Applied Engineering dealers or for \$15 plus shipping directly from Applied Engineering, (214) 241-6060.

Beagle Bros

Beagle Bros produces the TimeOut series of AppleWorks enhancements. You must use

version 2.0 of the TimeOut program with version 2.1 of AppleWorks. The TimeOut program is included on every TimeOut disk. *[Ed: The version number of your TimeOut program appears on the screen every time you start AppleWorks.]*

In addition, AppleWorks 2.1 requires version 2.0 of UltraMacros, SideSpread, FileMaster, Graph, and MacroTools. Versions of QuickSpell, SuperFonts, and DeskTools I prior to 2.0 may not work reliably with AppleWorks 2.1. All versions of PowerPack, Thesaurus, and DeskTools II are compatible with AppleWorks 2.1.

Starting September 1, you can get version 2.0 of the TimeOut modules from Bruce Shanker, NAUG's "Beagle Buddy". The updates cost \$2.50 for the first 5.25-inch disk and \$1 for each additional 5.25-inch disk, or \$3 for the first 3.5-inch disk and \$2 for each additional 3.5-inch disk.

Send your *original* TimeOut disk(s) with a check payable to Bruce Shanker (not to NAUG) to: 1279 Boyd Road, Warminster, PA 18974. Also include your return address and NAUG membership number.

You can get more information about the new TimeOut modules from Beagle Bros, (619) 452-5500.

Checkmate Technology

Checkmate Technology distributes the "MultiRam Software Disk" that lets AppleWorks address the extra memory on the firm's MultiRam expanded memory cards. In addition, the software overcomes some of the file size limitations built into AppleWorks.

You must have version 5.2 or later of the MultiRam Software Disk to use AppleWorks 2.1. You can update to the current version of the Checkmate expansion software by sending \$13 to Checkmate Technology, 509 S. Rockford Drive, Tempe, AZ 85281, (800) 325-7347.

JEM Software

JEM software distributes programs that enhance AppleWorks. AppleWorks 2.1 requires versions 2.0 of PatchMania, Late Nite Patches, and PathFinder. To get version 2.0 of these programs, send your *original* PatchMania, Late Nite Patches, and/or PathFinder disks (or the label from the disks) and \$5 per disk to JEM Software, Box 20920, El Cajon, CA 92021.

Pinpoint Publishing

Pinpoint reports no incompatibilities between AppleWorks 2.1 and its line of integrated desk accessories. For more information, contact Pinpoint Publishing at (415) 654-3050.

—Warren Williams

AppleWorks Update...

- E. Version 2.0 of AppleWorks will not print multiple copies of a document, report, or spreadsheet correctly if you invoke the Apple IIGS print buffer. Version 2.1 lets you use that buffer.
5. Version 2.1 allows up to 64 characters in a pathname, so you can enter longer subdirectory and file names. Earlier versions of AppleWorks limited pathnames to a maximum of 30 characters.
6. Version 2.1 of AppleWorks will be shipped on a disk that contains ProDOS 8, version 1.5, the latest version of ProDOS. Until now, AppleWorks was shipped with an early version of ProDOS that could not recognize the Apple IIGS clock. The new version of ProDOS recognizes that clock and time-stamps all AppleWorks files.

How to Get Version 2.1

Until September 30, 1988, version 2.1 of AppleWorks is available free to all AppleWorks 2.0 owners. However, you must become a "Claris Registered User".

If your copy of AppleWorks came in a blue and gray Claris box and if you returned the registration card included in your AppleWorks package, you are already a Claris Registered User. You need do nothing: Claris will automatically send you both 3.5-inch and 5.25-inch copies of AppleWorks 2.1.

If your copy of version 2.0 of AppleWorks came in an Apple Computer box (the manuals are white with a striped Apple on the upper left-hand corner), you can become a Claris Registered User and get a free copy of version 2.1. Send your *original* AppleWorks Startup/Program disk to Claris at the address below. Send *either* the 3.5-inch disk *or* the 5.25-inch disk. Claris will send you the new version of the program on the same-size disk.

You will not need and will not receive new documentation to use version 2.1.

Mail your disk and/or update request to:

AppleWorks Update
Claris Corporation
440 Clyde Avenue
Mountain View, CA 94043. ■

Should You Update to Version 2.1?

The availability of AppleWorks 2.1 forces AppleWorks users to make a decision. Should you update to the newest version of the program or should you continue to use version 2.0? There are arguments supporting both alternatives.

Three groups of AppleWorks users should consider using version 2.1 immediately: (a) Apple IIGS owners with more than 1-megabyte of memory and the need to work with large AppleWorks files, (b) users who work with large spreadsheets, and (c) "explorers" who want to learn as much as possible about their Apple computer and AppleWorks.

However, if you use AppleWorks as a productivity tool, and if you want to maximize your output without investing time configuring and reconfiguring your software, consider waiting before switching to version 2.1. AppleWorks is a complex program. When you add the different desktop expansion software, TimeOut enhancements and JEM patches, the total complexity of the package grows significantly. There are too many opportunities for things to go wrong.

If you are happy with AppleWorks 2.0, I suggest you order the update to 2.1 from Claris immediately, but wait before installing the new software on your computer. Let others go before you and find the problems. We will publish their experiences and suggestions in forthcoming issues of the *AppleWorks Forum*.

Corrections

The July 1988 issue of the *AppleWorks Forum* incorrectly listed the telephone number for accelerator manufacturer Zip Technology. The correct number is (800) 321-7200.

How Do You Use AppleWorks?

As a members of a users group, we learn new things about AppleWorks from each other. If you would like to share your ideas with other NAUG members, send your articles and templates to NAUG, Box 87453, Canton, MI 48187.

Special Printing Effects from Dot Matrix Printers

by William Marriott

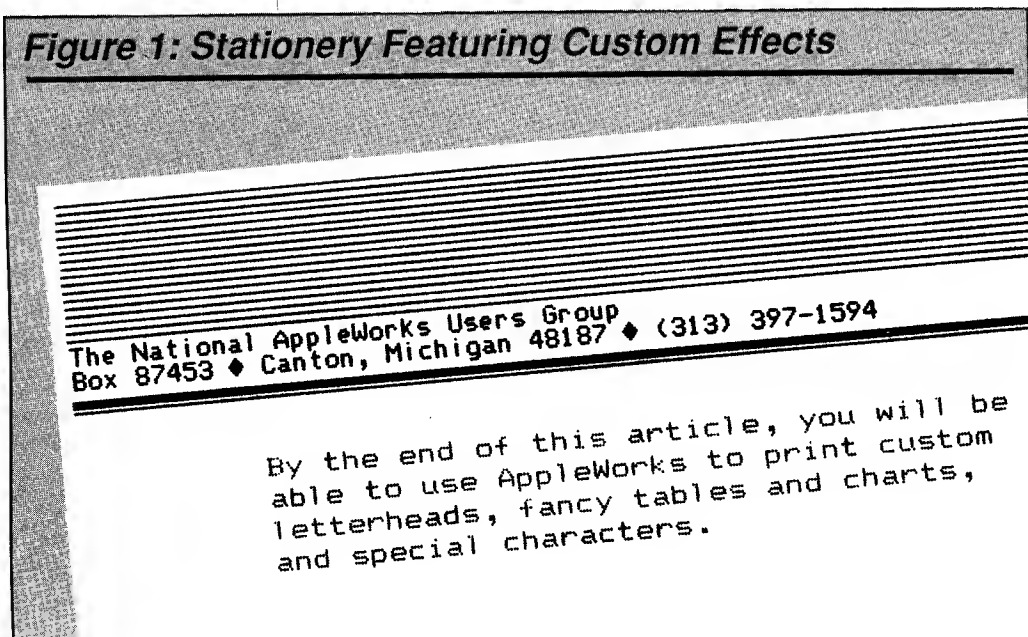
Most modern dot matrix printers can produce a variety of attractive graphic effects, including custom lines, graphic characters, and color output. However, AppleWorks does not provide a way to invoke the commands required for this fancy printing. *Figure 1* is an example of the enhanced output you can get from AppleWorks.

In this article, I will describe how to access your printer's special codes from within Apple-

Works. By the end of this article, you will be able to use AppleWorks to print custom letterheads, fancy tables and charts, and special characters (like the Open-Apple symbol). Although I will describe the codes necessary to control an ImageWriter II, owners of other printers should be able to generalize these techniques to enhance the output from their units.

The key to this process is to define the ImageWriter as a "Custom Printer" with a code that lets you access its many features. You can then enter that generic code, followed by any ImageWriter command to access the printer's fonts and graphics. Specifically, since the ImageWriter uses the Escape Key to turn on many of its special features, we will set up the Boldface Begin Command so it sends just an Escape to the ImageWriter. The ImageWriter will then interpret any characters that immedi-

Figure 1: Stationery Featuring Custom Effects



ately follow Boldface Begin as commands to be executed by the printer.

Prepare AppleWorks

Start by adding a custom printer to AppleWorks and enter all the ImageWriter codes listed in *Figure 2*. Do not enter the standard ImageWriter boldface code into the Boldface Begin area. Instead, enter only an Escape. Do not enter any code into the Boldface End area. *[For step-by-step help installing a custom printer, see the article entitled "How to Configure AppleWorks so It Works with Custom Printers" in the August, 1986 issue of the AppleWorks Forum.]*

Boldface Begin now contains an "all-purpose" special effects code. When you use the modified Boldface Begin Command in an AppleWorks word processor document and follow the command with the

Figure 2: Printer Setup for Custom ImageWriter

■ Needs line feed after each Return:	No
■ Accepts top-of-page commands:	No
■ Stop at end of each page:	No
■ Platen Width:	8.0 inches
■ Characters per inch:	
9: Escape n	13: Escape e
10: Escape N	15: Escape q
12: Escape E	17: Escape Q
■ Lines per inch:	
6: Escape A	8: Escape B
■ Boldface:	
Begin: Escape	End: <None>
■ Subscript (ImageWriter II only):	
Begin: Escape y	End: Escape z
■ Superscript (ImageWriter II only):	
Begin: Escape x	End: Escape z
■ Underlining:	
Printer has start/stop underline commands.	
Start: Escape X	Stop: Escape Y

appropriate keystrokes, AppleWorks will send an Escape to your printer. The ImageWriter will treat the Escape code and following characters as a single printer command.

For example, the sequence "Escape K2" normally tells the ImageWriter II to print in red. The sequence "Escape K0" commands printing in black. If you enter the sequence Boldface Begin, K2, Boldface End,hello (which looks like "^K2^hello" on the AppleWorks screen), the word "hello" will print in red.

So many printer commands begin with the Escape character that you will be able to create many attractive effects with your printer. (Unfortunately, you cannot use this technique to enter printer codes that use control characters, such as the Control-G required to print Spanish characters. AppleWorks does not let you enter control characters into a word processor document.) [See "Using AppleWorks in Foreign Languages" in the May issue of the AppleWorks Forum.]

Remember to end each special effect with the Boldface End command.

A Tutorial

Here is a tutorial that will show you how to use this printer to generate special effects. First, you will learn how to print text in boldface, then you will progress to increasingly complex applications. You should create a new word processor document for each of these experiments. I will assume you created the custom printer with the modified boldface command as described above.

Boldface is activated on an ImageWriter by sending the code "Escape !" and turned off with "Escape "": AppleWorks usually issues the correct Boldface Begin and Boldface End commands for you. However, your custom printer does not know these commands; you will have to enter them manually. Follow these steps to print in boldface:

1. Press Control-B (to activate the Boldface Begin Command). A caret (^) will appear.
2. Type an exclamation point.
3. Press Control-B again to generate a Boldface End Command.
4. Type the text you want to print in boldface.
5. Press Control-B again, type a quotation mark, then type Control-B once more.

Your screen should look like this:

This ^!^word^^ will appear in boldface.

Your printed output should look like this:

This word will appear in boldface.

Colorful Printouts

You can also use the generalized Escape command to use the color printing capability of the ImageWriter II.

Put a four-color ribbon in the printer and try the following steps:

1. Put the cursor on the first letter of the text you want to print in color and type a Control-B to invoke the Boldface Begin Command.

Be Sure Not to Confuse AppleWorks

As you discover new ways to generate special effects on your printer, remember that your commands can act in unexpected ways. Be aware of the following:

1. You start each custom printer effect with a Boldface Begin Command, so AppleWorks views each custom printer command as a word in boldface. As a result:

- AppleWorks counts the characters in printer commands when centering a line, formatting a paragraph, and justifying text.
- If a printer command is split at the end of a line, AppleWorks will insert the Boldface Begin Command at the start of the succeeding line, as it normally does for boldfaced text. When this happens, the results are unpredictable.
- A press of Control-B is sometimes interpreted as Boldface End, when you really intend Boldface Begin.

2. AppleWorks keeps track of the number of lines it prints. If you use any special line spacing techniques and do not

compensate for them by changing the page length settings in AppleWorks, your document will not fit properly on the page.

3. Commands like color changes stay in effect until the printer receives a command to print a different color.
4. You should know the effects the different commands have on each other. For example, the characters-per-inch setting has an effect on the length of custom lines.

Here is how you can avoid many of these problems:

1. Set the platen width as wide as possible before you enter a line that contains several printer commands. This helps

prevent unintentional breaks in the line when you print. Remember to return the platen width to normal when you are done using the effect.

2. Be sure to pair off Boldface Begin and End Commands. You can check whether a caret mark is a Boldface Begin or Boldface End Command by placing the cursor over it and looking at the bottom line of the AppleWorks screen.
3. Finish whatever printer effect you start. For example, be sure to change the ink color back to black after printing a color effect.
4. Use AppleWorks' built-in formatting commands whenever possible.

How to "Debug" Custom Printer Effects

Are you getting printouts that bear little resemblance to the custom effects you want to achieve? Chances are that stray Escape codes are being sent to your printer. Here is a way to see the printer control codes that AppleWorks is sending to your printer.

Go to the Change a Printer Menu and modify the control codes for boldface. Replace the code for Boldface Begin with the open brace ({) character and the code for Boldface End with the close brace (}) character.

Now print the document. The braces will show you every place where boldface commands are issued by you or by AppleWorks.

2. Type one of the following codes, depending on the color you want to print:

K0 = black
K1 = yellow
K2 = red
K3 = blue
K4 = orange
K5 = green
K6 = purple

3. Type Control-B again to issue a Boldface End Command.
4. Move the cursor to the end of the text you want to print in color.
5. Type a Control-B again to issue a Boldface Begin Command.
6. Type K0 to return to printing black characters, then type Control-B.

Figure 3: MouseText Characters

A	Q
B	A
C	X
D	✓
E	✓
F	↓
G	≡
H	←
I	-
J	↓
K	↑
L	-
M	↓
N	■
O	⌘
P	⌘
Q	⌘
R	⌘
S	-
T	L
U	→
V	■
W	■
XY	□
Z	
[◆
]	◆
\	-
^	E
_	
@	⌘

Figure 4: Sample Custom Lines

```

a  _____
b  _____
c  _____
d  _____
e  _____
f  _____
g  _____
j  _____
A  _____
B  _____
C  _____
D  _____
E  _____
F  _____
G  _____
J  _____
1  _____
2  _____
3  _____
4  _____
5  _____
,  _____
.  _____
(  _____

```

mand to end MouseText is an Escape code followed by a dollar sign (\$).

Try this example, which puts check marks in front of items in a list:

1. Create a new word processor document and enter the following text:

A secretary should be familiar with these machines:
 Typewriter
 Photocopier
 Time Clock
2. Move the cursor to the line that says "Typewriter" and press Control-B to indicate you want to send an Escape to your printer.
3. Type "&", which is the code to use MouseText characters, a "D", for the check mark symbol, and another Control-B to end the command.
4. Type Control-B again, a "\$" to turn MouseText characters off, and a Control-B to end the printer command.

Your screen will display the following:

This is the last warning you will receive before you are ^K2^expelled^KQ^ from school.

However, the ImageWriter II will print the word "expelled" in red.

MouseText Characters

The character sets built into the ImageWriter II include 32 "MouseText" characters. These characters appear in *Figure 3*.

The printer command to invoke MouseText begins with an Escape code, followed by an ampersand (&), followed by one of the letters of the alphabet or punctuation marks listed in *Figure 3*. The com-

5. Repeat steps 2 through 4 for each of the other two items in the list. You can use the clipboard to make the process faster. When you are done, your screen will look like this:

A secretary should be familiar with these machines:

```

^&D^^$^ Typewriter
^&D^^$^ Photocopier
^&D^^$^ Time Clock

```

When you print this text on an ImageWriter II, the output will look like this:

A secretary should be familiar with these machines:

```

✓ Typewriter
✓ Photocopier
✓ Time Clock

```


Figure 5: Custom Letterhead Template

Gives tighter, more attractive spacing for graphics → -----Lines per Inch: 8 lines
Prevents AppleWorks "wrapping" lines with printer codes → -----Platen Width: 10.0 inches
A convenient setting for drawing lines → -----Chars per Inch: 12 chars
The letterhead should extend beyond standard margins → -----Left Margin: 0.0 inches
-----Right Margin: 0.0 inches
Draw a series of horizontal colored lines in the "I" Pattern → ^K3^ ^V0800I^ <Return>
^K6^ ^V0800I^ <Return>
^K2^ ^V0800I^ <Return>
^K4^ ^V0800I^ <Return>
^K1^ ^V0800I^ <Return>
^K5^ ^V0800I^ ^K0^ <Return>
Text to print in boldface, black ink → ^!^ National ° AppleWorks ° Users ° Group <Return>
Address information in purple ink, use MouseText diamond → ^K6^ Box ° 87453 ° ^&^ [^\$^ ° Canton, ° Michigan °
to separate elements of the address 48187 ° ^&^ [^\$^ ° (313) ° 397-1594 ^K0^ ^" ^ <Return>
Draw final line across the page in the pattern "I" → ^V0800\^ <Return>
Return to standard settings, including black ink → ^K0^ <Return>
-----Lines per Inch: 6 lines
-----Platen Width: 8.0 inches
-----Left Margin: 1.0 inches
-----Right Margin: 1.0 inches
-----Chars per Inch: 10 chars

Borders and Lines

My favorite application for these fancy printing techniques is to generate custom horizontal lines. The format of the command which invokes this feature on the ImageWriter is:

Escape V <length><style>

The <length> is a four digit number indicating the number of dots long you want the line. The <style> is a single character representing the type of line you want to print. (The length of your line will also be affected by the characters per inch setting in effect when you print the line. You should experiment with the different combinations of characters per inch and width settings.) *Figure 4* shows examples of some of the 128 different lines you can create with this effect.

Here is how to create these lines:

1. Since lines customarily appear below headings, type a short phrase to be your "heading". You may also want to print the heading in boldface. For example, enter a Boldface Begin Com-

mand, !, Boldface End Command, Fancy Line Example, Boldface Begin Command, ", Boldface End Command. Your screen will look like this:

^!^Fancy Line Example^^^

2. Press the Return Key, and type Control-B, then V, to invoke the printer's bit image mode.
3. Type the total length of the line in dots. For now, use the value 0500. The length specification must be four digits long.
4. Type an "h" to print a fine double line heavier on the bottom than the top.
5. End the printer command with another Control-B. Your screen should show:

^!^Fancy Line Example^^^
^v0550h^

Your printed output will look like this:

Fancy Line Example

Advanced Techniques...

When you adapt this example to create your own lines in AppleWorks word processor documents, remember that the characters per inch setting affects the length of the line. Suppose you want to print a line two inches long. If the printer is set to 10 characters per inch, it will print 80 dots per inch, and you should use the command ^V0160h^ to print a two-inch line ($80 \times 2" = 160$). However, if the printer is set to 17 characters per inch, it will print 138 dots per inch, and you should use the command ^V0276h^ to print the line ($138 \times 2" = 276$).

How to Use the Techniques Together

Many of these commands can be used in combination with each other to produce elegant documents.

However, remember to be careful whenever you use different printer commands in a single document. Make certain the Boldface Begin and End characters are issued properly, and that you turn off any special feature you turn on. If you are not careful, your entire document could be printed in yellow, or worse, in MouseText!

How to Create a Fancy Letterhead

Here is a final project: Use these effects to generate a fancy letterhead for your stationery. You can use one or two effects to create a simple but colorful letterhead, or you can delve into your ImageWriter II manual and discover even more special effects to produce an impressive sheet of stationery.

Figure 1 (on page 10) is an example of a fancy letterhead that includes a series of colored lines, followed by name and address information. MouseText characters separate elements of the address.

Here is how to create this letterhead:

1. Create a new file for the word processor.
2. Enter any standard format settings you use for your documents.
3. Enter the codes that appear in Figure 5. Every "^" character represents a press of Control-B. Spaces between printer commands are inserted for clarity. Press the Return Key or Space Bar only when you see <Return> or "o" (for a space).

4. Issue an Apple-S command and save your letterhead template as a separate file on your data disk.

You now have a template you can use at the beginning of any letter or document. Personalize the template with your choice of colors and characters. The ImageWriter can also print a number of extended and compressed fonts that can add even more to your graphic letterhead.

[Portions of this article are based on techniques described in "Bit Image Graphics on the ImageWriter", by NAUG member Ray Settle, from Arnold, Maryland. Mr. Settle's article appeared in the May 1988 issue of the Washington Apple Pi users group journal.]

AppleWriter Trade-in Offer

Clarix Corporation is offering AppleWriter owners an opportunity to upgrade to AppleWorks 2.0 from AppleWriter for \$75. For information, call Clarix at (800) 544-8554 and request the AppleWriter Upgrade Kit. The offer expires September 30, 1988.

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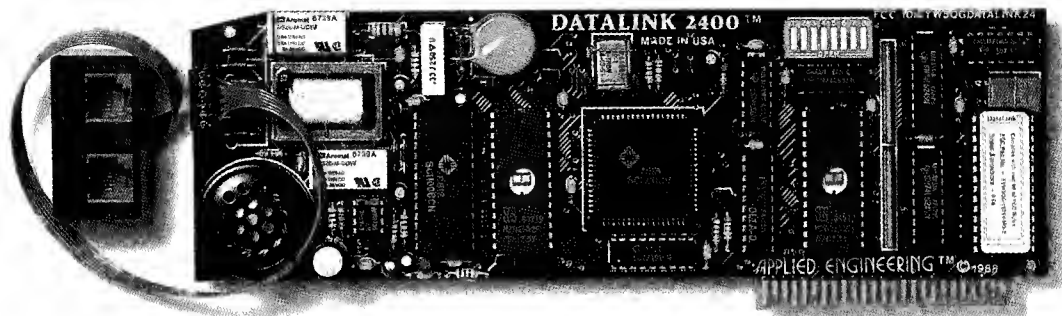
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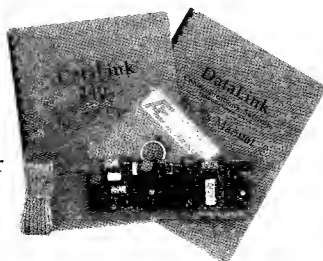


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Hints for Using SuperFonts

by Bruce Shanker

Last month, Bruce Shanker reviewed SuperFonts, a TimeOut program that lets you get attractive output from AppleWorks. This month, Mr. Shanker describes some undocumented features of this popular AppleWorks enhancement.

Mark Simonsen did many clever things when he wrote SuperFonts. For example, although SuperFonts runs on all Apple II series computers, the program uses the Apple IIGs fonts. Since there are many disks of IIGs fonts available from different sources (including nine disks of fonts in NAUG's Public Domain Library), this font compatibility allows Apple IIe and IIc users to enjoy some of the benefits formerly available only to Apple IIGs and Macintosh owners.

In this article, I will describe two undocumented features of SuperFonts that add to the utility of this program.

Using Different Font Disks

SuperFonts is configured so it expects to find your fonts on a disk called /SF in a subdirectory called /FONTS. The fonts that come with the program are stored in that location. You can use the TimeOut Utilities to change the default location where SuperFonts expects to find the appropriate files, but that method requires that all your fonts reside in a single subdirectory on one disk.

However, there is an easy, but undocumented way to get more flexibility from the program. You can identify the pathname to each font when you define the font at the beginning of your document. For example, the normal command to load the 12-point New York font is:

```
<1=NEW.YORK.12>
```

If NEW.YORK.12 is in the standard location on your fonts disk, SuperFonts will find the file and load it into memory. But if NEW.YORK.12 is not in the standard location, you can still use this font by entering its pathname when you create your word

processor file. For example, if NEW.YORK.12 is on the disk GS.FONTS in the subdirectory named TEXT, you can enter the following command:

```
<1=/GS.FONTS/TEXT/NEW.YORK.12>
```

When you print your document, SuperFonts will look for the correct font in the subdirectory TEXT on the GS.FONTS disk.

This feature lets you get enhanced flexibility from SuperFonts; you can now incorporate fonts from different disks into a single AppleWorks document.

The same technique works with picture files. If the picture DOG.PIC is located on the disk ANIMALS and in the subdirectory PETS, you can load that picture into SuperFonts by putting the command

```
<P1=/ANIMALS/PETS/DOG.PIC>
```

at the beginning of your document.

Enhancing Graphs with SuperFonts

The TimeOut Graph module is another useful addition to AppleWorks. Graph lets you use spreadsheet data to produce seven different types of charts and graphs. However, Graph does not let you incorporate charts and graphs directly into an AppleWorks document. In addition, you cannot add text to an existing graph.

SuperFonts lets you overcome these limitations. You can "print" your graph onto a disk as a picture file and use SuperFonts to incorporate that graph directly into AppleWorks word processor documents.

Follow these steps to integrate Graph and SuperFonts:

1. Use TimeOut Graph to create a graph or chart.

2. With the TimeOut Graph Main Menu on the screen, select "File".
3. With the File Menu on the screen, select "Pic" (for "Picture").
4. With the Picture Menu on the screen, select "Save" and enter a file name (e.g., GRAPH.PIC).
5. Press the Escape Key to exit Graph, go to the Main Menu in AppleWorks, and indicate you want to create a new word processor document.
6. Enter the commands that define the different fonts you will use when you print with SuperFonts. Include the command:

`<P1=GRAPH.PIC>`

to load your graph into SuperFonts.

7. Type your document, including any comments you desire.
8. When you get to the place in your document where you want to insert the graph, enter the following commands:

`<nb>`

`<p1>`

`<ne>`

The commands `<nb>` and `<ne>` control SuperFonts' inverse feature. The commands are necessary because Graph saves images on disk the way they appear on the screen. That is, graphs are saved as white text on a black background. The `<nb>` command reverses the image and prints the graphics normally. The `<ne>` command turns off the inverse image.

9. Finish entering the text.
10. Print your document using SuperFonts.

SuperFonts also lets you "crop" the graph so you can print just a portion of the total image. Directions for cropping images appears in the SuperFonts manual.

With some clever editing, you can use SuperFonts to enhance the legends in your graphs and charts. In one instance, I had to produce a graph with 12 different bars. The small width of the bars made it impossible for Graph to print a legend beside each bar. So, instead of assigning a descriptive label to each bar, I assigned a number from 1-12. Then I

used the AppleWorks word processor to write a legend explaining each of the numbered bars and used SuperFonts to combine the graph and the explanatory legend.

SuperFonts is a flexible, useful AppleWorks enhancement. I hope these techniques help you get more from the program. ■

[Bruce Shanker is a mathematics teacher at Kensington High School in Philadelphia, Pennsylvania. Bruce is NAUG's "Beagle Buddy"]

Quick Tip

How to Get the First Line to Print Properly

by Ron Ward

Some AppleWorks users experience difficulty printing documents in Near Letter Quality mode on a dot matrix printer. All but the first line of their documents print correctly; the first line of a document occasionally gets "skewed" or shows other defects.

Here are three techniques you can use if the first line on your word processor documents does not print correctly:

1. Use the line feed or form feed buttons to change the position of the paper. (These buttons only work when the "Select" light is out.) Never move the paper manually when the printer is on.
2. Turn the printer off and back on again before printing. This resets the printer; the first line should print correctly.
3. Enter a Return at the beginning of every word processor document. This advances the platen and appears to clear up many first-line printer problems. ■

[Ron Ward teaches art at Coolidge Junior High School in Granite City, Illinois.]

How to Prepare Lists for the Word Processor

by Warren Williams

Do you ever need an alphabetized list of students' names in a letter? Do you ever want to include a numerically organized list of part numbers in a document? Here are three ways you can get organized lists in word processor documents. You can use these techniques to organize your lists in alphabetical or numerical order.

Use the Spreadsheet Module

1. Create the list in the AppleWorks spreadsheet module. You can create the list in the spreadsheet, reorganize the data with the Arrange Command, and use the AppleWorks clipboard to transfer the data into the word processor module. Here's how:
 - A. Go to the AppleWorks Main Menu and create a new spreadsheet.
 - B. Use the Apple-L command to make the spreadsheet columns as wide as necessary.
 - C. Enter your data.
 - D. Issue an Apple-A command and arrange the list alphabetically or numerically, based on the context of any single column.
 - E. Issue an Apple-O command to go to the Options menu. Then issue a PH command to tell AppleWorks not to print the page headings. Press the Escape Key to return to the spreadsheet.
 - F. Issue an Apple-P command and "print" the entire spreadsheet "To the clipboard for the word processor".
 - G. Use the Apple-Q command to return to the word processor document and use the Apple-C command to copy the list from the clipboard into your letter or report.
 - H. Set the margins in your document to format the list placed on the word processor page.

- I. Save and print your word processor document.

Use the Data Base Module

2. You can develop the list in the data base module and copy it into a word processor document. Proceed as follows:
 - A. Create a new data base file with one category for each column you will need in your final report.
 - B. Enter the data by entering one record for each line that will appear in your final list.
 - C. Use the Apple-A command to arrange the records in alphabetical or numerical order.
 - D. Create a tables format report that prints the data you want to include in the word processor document. Use the Apple-O command to turn off the headings.
 - E. "Print" the report "To the clipboard for the word processor" and proceed as in steps E through I above.

Use the Line Sorter

3. Create your list in the AppleWorks word processor module. If you have two or more columns, set up tabs to keep the columns aligned. Then use the "Line Sorter" on the TimeOut PowerPack disk to put the lines into numerical or alphabetical order.

While each of these techniques has its proponents, all three approaches will help you prepare alphabetized or numerically sorted lists.

[Dr. Warren Williams teaches courses in the Educational Technology program at Eastern Michigan University. He is a technical advisor to NAUG, a frequent contributor to the AppleWorks Forum, and conducts AppleWorks seminars throughout the country.]

A Word From The Wise.

"Beagle Bros' TimeOut series puts every enhancement you could dream of right inside AppleWorks."

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"TimeOut Graph works seamlessly; if you didn't know better, you'd swear it was part of AppleWorks. I'm very impressed with TimeOut."

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Marc Apfelstadt, Call-APPLE

"Beagle Bros' foray into the applications arena is impressive. The TimeOut series add-ons are easy to use and they interact with AppleWorks perfectly."

TimeOut SuperFonts print quality is excellent, and makes you think you have a Macintosh hidden inside your Apple II. The TimeOut series is a major breakthrough for AppleWorks owners."

Gregg Keizer, Compute!'s Apple

"The TimeOut series is the best thing to come along for AppleWorks users."

Lee Hayward, TAWUG

"TimeOut UltraMacros is incredible. TimeOut QuickSpell is a work of true genius. I love this program."

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"TimeOut DeskTools does its work at blinding speed. Beagle Bros has done its homework. The breadth and quality of this opening salvo in the AppleWorks enhancement wars bodes well."

Charles Rubin, A+

"It is rare a program impresses me as much as the TimeOut series did. After installing the programs and seeing the speed, all I could say was WOW. As far as I am concerned, if you use AppleWorks you need TimeOut. Period!"

Jay Wilbur, Uptime

"TimeOut 'fits' AppleWorks like a glove and in no time you get the feeling that it 'belongs' with AppleWorks. TimeOut SideSpread is terrific. TimeOut FileMaster is indispensable."

Ib Thorsteinsson, Robert Grist, Lorne Walton, Apples B.C. News



Beagle Bros
MICRO SOFTWARE

"The TimeOut series programs are excellent AppleWorks enhancements."

Warren Williams, NAUG AW Forum

How to Use the Clipboard to Save Keystrokes

by Cathleen Merritt

Ever get annoyed at how many keystrokes it takes to accomplish some formatting tasks in the AppleWorks word processor? Pity the poor chemistry teacher who must enter the formula H_2SO_4 in AppleWorks — it takes 25 keystrokes to enter that formula!

Owners of macro programs, like UltraMacros or KeyPlayer, know how to handle this problem. They create a macro that generates the necessary keystrokes and run that macro whenever they need the repetitive formatting commands.

Here is a technique that lets those of us without macro programs use the AppleWorks clipboard to save keystrokes.

Use the Clipboard

Whenever you need a series of formatting commands, enter an Apple-O to go to the Options Menu, type the complete series of commands, and press the Escape Key to return to the word processor document. Get the commands on the screen (sometimes you must issue an Apple-Z to see the commands) and use the Apple-C command to copy the commands onto the AppleWorks clipboard. Then continue your work as usual.

The next time you need those commands, don't return to the Options Menu. Instead, issue an Apple-C and copy the commands from the clipboard into your document. They will appear on your screen as if you typed them again.

Clipboard Limitations

No matter how much memory you add to your computer, there is a limit on the amount of data you can store on the AppleWorks clipboard. AppleWorks stores up to 250 word processor lines, 253 data base records, or 250 spreadsheet rows on the clipboard. These limitations are built into AppleWorks.

There is one exception to this limitation. Memory expansion products from Applied Engineering (e.g., RamWorks, RamFactor, GSRam, RamKeeper, and PC Transporter cards) are shipped with a utility program that patches AppleWorks so it recognizes the extra memory in your system. That same program expands the AppleWorks clipboard so it can store up to 2042 word processor lines or 2042 data base records. The limitation remains at 250 spreadsheet rows on the clipboard.

If you expand your copy of AppleWorks with the AppleWorks 2 Expander or the AppleWorks Super Desktop Expander shipped with these Applied Engineering boards, you automatically get these more liberal clipboard limits. Unfortunately, the Applied Engineering desktop expansion programs do not work with other brands of memory expansion products.

An Example

Let's use the subscripts in the formula H_2SO_4 as an example. Try typing along as you read these directions.

1. Type the letter "H", the first letter of the formula.
2. Now you need a subscript. Issue an Apple-O command to go to the Options Menu.
3. Issue a Subscript Begin Command (-B) immediately followed by a Subscript End (-E).
4. Press the Escape Key to return to the AppleWorks document and you will see two caret marks representing the Subscript Begin Com-

Word Processor Tip...

mand immediately followed by the Subscript End Command. The screen looks like this: ^^.

5. Put the cursor on the first caret mark and issue an Apple-C command. Copy the two caret marks "To the clipboard".
6. Put the cursor on the second of the two caret marks and, with the inserting cursor on the screen, type the number "2". Since you are using the inserting cursor, the second caret mark will move out of the way to accommodate the number.
7. Press the Right Arrow Key twice to move past the second caret mark and continue to type the formula.
8. When you need to subscript the number "4" in the formula, issue an Apple-C command and copy the two caret marks "From the clipboard" into the document.
9. Once again, put the inserting cursor on the second of those two marks and type the number "4".

As long as you do not use the clipboard for any other text, it will continue to store the commands for subscript begin and subscript end. (You will quickly find yourself wanting to store more than one set of commands on the clipboard. Now you know why the Triple Clipboard module on the new TimeOut Power-Pack disk is so popular.)

You can generalize this technique to help you save time issuing other repeated formatting commands. Enter the commands once, copy them onto the clipboard, and re-use them whenever you wish. ■

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An Autoload Macro for TimeOut

by Mark Munz

Beagle Bros recently released version 2.0 of the TimeOut program. Version 2.0 lets you use an unlimited number of TimeOut modules (earlier versions of TimeOut were limited to 30 or fewer modules) and lets you add TimeOut modules even after you start AppleWorks.

Here is a macro that works with TimeOut version 2.0 to automatically load all of your TimeOut modules at startup. Study this macro carefully and change the necessary information to load up to nine additional directories automatically.

[Mark Munz is the author of Late Nite Patches and the public domain AppleSoft utility SoftWorks. He is pursuing a degree in Computer Science.]

Figure 1: Startup Macro

```
<ba->>:<all:
rtn rtn
$1 = "/RAM/POWER.PACK"
$2 = "/RAM/DESKTOOLS.II"
S=1
N=2
P=0

oa-Esc
$0="Utilities":find:rtn:
Z=1:
begin
if P=1 then bell:
    msg ' Insert ' + $(Z) + ' disk and press a key ':key:
elseoff:
>7<rtn:up:rtn:oa-Y:print $(Z):rtn
$0 =screen 1,24,5:
if $0="Press" then
    spc:bell:bell:ba-[:rpt
elseoff:
if S=1 then print "6":rtn:spc:elseoff:
Z = Z + 1
ifnot Z>N then
rpt:else Esc:oa-Q:Esc>!
```

{ ba-] handles errors when trying to load from the disk}
{Start AppleWorks and load first set of modules}
{Define \$1-\$9 here. Each entry contains the}
{full pathname of application directory.}
{Sort menus. S=0: Do not sort; S=1: Sort}
{Add two new menus. N= number of strings defined/menus added}
{Do not pause to switch disks.}
{P=0: Do not pause; P=1: Pause to switch disks.}
{Bring up the TimeOut Menu}
{Bring up the TimeOut Utilities}
{Start at 1 and increase until maximum number is reached}
{Alert user to switch disk and wait for key press}
{Load disk}
{Handle error}
{Sort menu}
{Increment menu number}

This macro handles errors loading the TimeOut modules:

```
<ba->>:<all
msg ' Got an error -- Press any key to try again or Esc to abort ':
y=key:
if y=27 then esc:oa-Q:esc:
bell:bell:msg ' TimeOut loading aborted! ':stop:elseoff>!
```

Footnotes in the AppleWorks Word Processor

by Stan Hecker

One of the disadvantages of the AppleWorks word processor is its inability to handle multiple-line footnotes. In this article, Stan Hecker describes a series of macros that add this feature to AppleWorks. Mr. Hecker's macros are on the AppleWorks Footnote System Disk available from the NAUG Public Domain Library.

At home, in school, or at the office, the AppleWorks word processor can produce attractive letters, memos, and reports. The word processor has exceptional utility, which is enhanced by its integration with the data base and spreadsheet modules.

Unfortunately, AppleWorks lacks some features that are common in powerful, stand-alone word processing programs. For example, AppleWorks does not include a graphic module that lets you surround text with boxes or fancy rules, nor can it automatically generate an index for a document or produce a table of contents. Most importantly, AppleWorks does not offer the ability to automatically incorporate footnotes into a document.

I work in an academic environment, and I miss that feature in AppleWorks. So I used the power of UltraMacros and AutoWorks, two add-on programs that work with AppleWorks, to add automatic footnoting capability to the word processor module. [Ed: UltraMacros is part of the TimeOut series from Beagle Bros and is available from NAUG and other sources. AutoWorks is a discontinued product and is no longer available.]

Macros Automate Footnoting

The macros on the AppleWorks Footnote System Disk let you "attach" a footnote to any text in the AppleWorks word processor. You can edit, delete, or move that text; the associated footnote will still appear at the correct place in the modified docu-

ment. In addition, there are two macros that automatically type "Ibid." and "op. cit." to help you save keystrokes when you enter footnotes.

What Is on the Disk

The AppleWorks Footnote System uses both sides of a disk: One side works with AutoWorks; the other with UltraMacros. In addition to the macros that add the footnoting capability, the disk includes extensive documentation in two word processor files. The documentation includes a description of how the macros work, a glossary to define any unusual terminology, and suggestions to help you install and use the macros. The UltraMacros version of the documentation includes a description of all the variables used by the macros.

What You Need

To use these macros, you need a copy of AppleWorks version 2.0 enhanced with either AutoWorks or UltraMacros. The macros also assume you have two disk drives or other appropriate memory devices, one of which contains the AppleWorks program. In addition, the documentation assumes you have an intermediate-level knowledge of AppleWorks, some beginning understanding of how to use macros, and some familiarity with the footnoting rules for academic papers.

Limitations and Cautions

The AppleWorks Footnote System has a number of known limitations. Specifically:

Public Domain Update...

1. You can have no more than one footnote reference on any line of text.
2. Each footnote must be limited to the number of lines available in your clipboard (250 lines with standard AppleWorks, 2042 lines if you modified AppleWorks with the Applied Engineering AppleWorks 2 Expander).
3. Aside from occasional quotations, which cannot contain footnotes, there can be no changes to the left and right margins in the document.

There are probably other limitations which might leave serious, experienced scholars dissatisfied. Such users should consider using a stand-alone word processing program with built-in footnoting capability.

How to Use the Macros

The AppleWorks Footnote System uses two types of macros, called Composition Macros and Final-Formatting Macros. Composition Macros are used while you compose the academic paper. They help you construct footnotes and insure that the text-reference and its note remain together throughout the writing phase of your work. The Final-Formatting Macros use the results of the Composition Macros to print a correctly formatted document.

To use the Composition Macros, press a Solid-Apple-B (for "Begin") exactly where the superscripted reference to the footnote should appear. For example, if you want "reference²²", type the word "reference" and enter a Solid-Apple-B. The screen will flash as the macro operates and then returns to normal. You then finish that line of text and, unlike other word processor documents, end the line by pressing the Return Key. The screen will flash again and, when it clears, you enter the footnote text like this:

Plato, The Republic, p. 282.

After typing the footnote, enter a Solid-Apple-E. After the screen flashes once more, you continue entering the text of your document.

As you use the Composition Macros, you will discover how they work. Rather than numbering the footnotes immediately, the macros set up a common structure for all footnote references; they

A Powerful Footnoting Alternative

Serious academic writers should consider Manuscript Manager, from Pergamon Software, for their professional writing. Manuscript Manager, a powerful word processing program, has a comprehensive footnote system that prompts the user to make appropriate entries. Manuscript Manager costs \$175 for the American Psychological Association version of the program and \$195 for the version that produces medical-style footnotes. AppleWorks word processor files can be converted into Manuscript Manager format with a utility program available from the company.

[Demonstration disks cost \$10 from Pergamon Software, Maxwell House, Fairview Park, Elmsford, NY 10523 (914)-592-7700.]

attach three superscripted asterisks to your text. You can rearrange your text without worrying about the final numbering of the footnotes; numbering is accomplished by the Final-Formatting Macros after you are done editing your document. In addition, the macros use the Group Begin and Group End commands to keep the footnote and its text-reference on the same page. Finally, the macros handle all the necessary changes between single-spaced and double-spaced text.

For Macro Programmers

If you enjoy programming macros, improving these two packages is a worthwhile challenge. The macros are sufficiently complex to excite your curiosity. The AutoWorks macros push the limits of the parent program. The UltraMacros macros include several complex webs of conditional control transfer which will pique your interest. In both sets, the keyboard-invoked macros are merely the tip of the iceberg.

If you can improve these macros, please share your expertise and success with your fellow NAUG members.

[The AppleWorks Footnote System Disk is available from the NAUG Public Domain Library for \$4, plus \$2 shipping.]

[Stan Hecker is on the administrative staff at Michigan State University, East Lansing, Michigan.]

How to Get Help Recovering Damaged Disks

On occasion, NAUG members have difficulty getting AppleWorks to read one or more data files from a floppy or hard disk. Here is a list of NAUG members who can help you recover data in damaged files.

Key

The symbols below each name indicate the kind of disks the expert can recover:

- ✱ = Damaged ProDOS directories
- = Damaged AppleWorks files
- ◇ = 5.25-inch disks
- = 3.5-inch disks
- Ⓢ = Hard Disks

Scott Bulmahn
✱ ■ ◇

6030 Woodward
Downer's Grove, IL 60516
Fee: \$20/disk; \$20/Data Base File
Turn Around Time: 2 days
Comments: Specializes in AppleWorks Data Base files

Ernie Cooper
✱ ■ ◇ ○

27245 Sunset Blvd. E.
Lathrup Village, MI 48076
(313) 557-8698
Fee: \$25/disk
Turn Around Time: 2-3 days

James Hirsch
✱ ■ ◇ ○

1565 103rd Ave NW
Coon Rapids, MN 55433
(612) 422-5572 (work)
(612) 755-8082 (home)
Fee: No Charge
Turn Around Time: 4-7 days

Patrick Kehoe
✱ ■ ◇ ○ Ⓢ

932 Penniman Ave.
Plymouth, MI 48170
(313) 459-5778
Fee: \$10/hr, \$25 minimum
Turn Around Time: varies

Joseph Kline
✱ ◇ ○ Ⓢ

5929 16th Street
Lubbock, TX 79416
(806) 796-0829;
Bulletin Board (806) 796-1238 [Sysop]
Fee: \$5/disk
Turn Around Time: 1-3 days
Comments: Other services: backup
copy-protected software
(original disk required - \$10/disk)

Carlos Madan
✱ ◇ ○ Ⓢ

RFD 3 Box 111
Morrisonville, NY 12962
(518) 562-0799
Fee: \$5/hour
Turn Around Time: 1 day

Stephen Stewart
✱ ◇ ○

Rt 4 Box 370
Jacksonville, FL 75766
(214) 586-9440
Fee: \$5/hour
Turn Around Time: 7 days
Comments: No charge if data is not
recovered

John Thomas
✱ ■ ◇ ○

38 Sunnybrae Blvd.
Trenton, NJ 08620
(609) 989-2495 M-F 9am-3pm
(609) 585-2748 Daily 7pm-9pm
Fee: \$25/disk
Turn Around Time: varies
Comments: Other services: Fixes
PFS: and Pascal-format disks

Michael Ungerman
✱ ■ ◇

Compute-Assist; 2977 Erskine Dr.
Oviedo, FL 32765
(407) 366-0060
Fee: See Comments
Turn Around Time: varies
Comments: NAUG Member's non-
commercial files: No Charge (send
blank disk and return postage)
Commercial: \$25/hour or \$5/file,
whichever is greater

Add-On Updates

Beagle Bros Adds Paint Module to TimeOut Series

Beagle Bros recently introduced TimeOut Paint, a new TimeOut module that lets you edit pictures and graphs and create drawings within AppleWorks. You can use Paint to enhance any AppleWorks document, including graphs produced with TimeOut Graph and attractively formatted printouts produced with SuperFonts. Paint is a new TimeOut module; it is not available through the Beagle Buddy program.

If you purchased TimeOut Graph or SuperFonts on or after May 19, 1988, you can get a free copy of TimeOut Paint by sending your original Graph or SuperFonts disk to Beagle Bros with a dated proof of purchase.

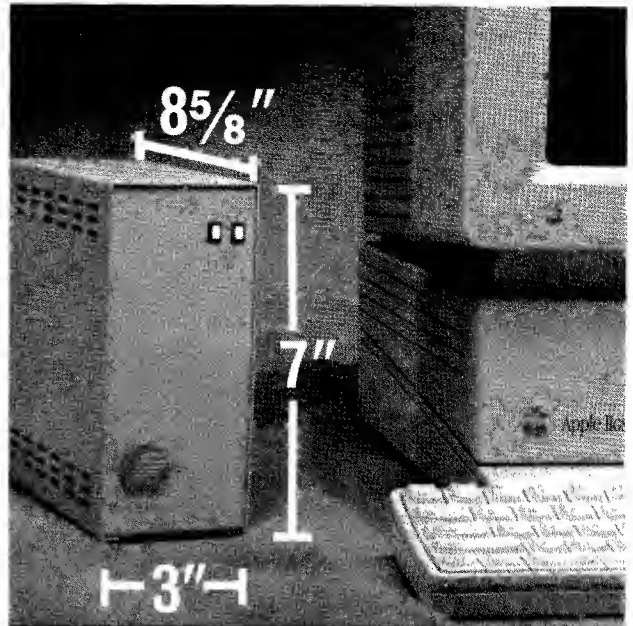
If you purchased TimeOut Graph or SuperFonts before May 19, you can get the latest version of your program and TimeOut Paint by sending your original SuperFonts or Graph disk with a check for \$23.50 to Beagle Bros, 6215 Ferris Square, Suite 100, San Diego, CA 92121.

New Accessories and Software from Applied Engineering

Applied Engineering's DataLink modem is now shipped with version 2.0 of DataTerm, an upgrade to the company's communications software formerly called "DataLinker". DataTerm 2.0 automatically prepares AppleWorks word processor files for transmission to other computers and to electronic mail systems. DataTerm can automatically convert AppleWorks word processor files into standard ASCII text, remove the header from the file, and transfer the document to a remote computer. Version 2.0 of DataTerm costs \$15, including shipping on pre-paid orders.

SlotMover is a hardware accessory for Applied Engineering's RamKeeper card. SlotMover physically relocates a RamKeeper so it no longer blocks slot #7 in your computer. The SlotMover costs \$42 including shipping.

[Applied Engineering, Box 798, Carrollton, Texas 75006 (214) 241-6060.]



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KeyPlayer™

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Point-to-Point™

Brilliant charts, graphs, drawings and pictures. Awesome: up to 16 AppleWorks spreadsheets, each with 10 hot-linked charts, plus added Print Shop graphics (and others) all at your command!

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More people use AppleWorks than all other integrated Apple II software programs combined. However, just for good measure, many of Pinpoint's programs also work with other popular ProDOS programs.

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And we haven't told you about COMMAND.COM, RunRun, ToolKit, Thesaurus or the Apple IIcs Starter Pak.

Almost two dozen AppleWorks Power Tools in all.

But Pinpoint is more than just great software. We're an entire company dedicated to Apple II solutions that save you time, effort and money.

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How to Get Help with AppleWorks Applications and Apple IIGs Questions

by William Marriott

Each month, the *AppleWorks Forum* lists the member-volunteers who offer technical support for AppleWorks products. This month's list identifies the volunteers who can answer questions about general AppleWorks applications and using AppleWorks on the Apple IIGs. Next month's issue will contain a list of members who offer help with AppleWorks modules.

Applications/Apple IIGs

How to Use This List

To the left of each volunteer's name are numbers that indicate the applications the consultant supports. Volunteers are listed alphabetically by state.

- 1 = Apple IIGs hardware
- 2 = Diversi Key*
- 3 = SoftSwitch*
- 4 = Telecommunications
- 5 = Educational Applications
- 6 = Custom Printing Effects

*Utility programs for the Apple IIGs

California

- 4,5 Robert Demmon
Coronado CA
619/ 435-0554 M-F 3pm-10pm;
S-S 9am-10pm
619/ 435-0520 M-F 3pm-10pm;
S-S 9am-10pm
- 5 Berenice Maltby
Corona del Mar CA
714/ 640-7369 9am-9pm
- 4 Dale Shields
Torrance CA
Compuserve 73177,2323
Genie D.G. SHIELDS

Colorado

- 4,5 Gary Armour
Littleton CO
303/ 933-9493 M-F 5pm-10pm;
S-S 10am-10pm

- 4 Lyle Graff
Littleton CO
303/ 977-4557 M-F 8am-3pm
303/ 794-5970 M-F 6pm-9pm;
Sat Noon-9pm

Connecticut

- 4,5 Martin Knight
Middletown CT
203/ 346-9698 Daily 6pm-9pm
NAUG BBS #101
Genie M.KNIGHT

Florida

- 5 John Andrianoff
Ft. Pierce FL
305/ 466-6653 School Days 3:30pm-
8:30pm;
Other Days Noon-8pm

Georgia

- 1,2,3, Jim Sulsona
4,5,6 Doraville GA
404/ 455-0853 Daily 9am-Midnight
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404-446-9048 #187

Iowa

- 4 Dan York
Marion IA
319/ 373-1883 M-F 5pm-10pm;
S-S 10am-10pm
319/373-2083 M-F 5pm-10pm

Illinois

- 4 J. Terry Flynn
Lake Bluff IL
312/ 680-0980 M-F 8am-5pm
312/ 234-2820 M-F 6pm-9pm;
S-S 10am-9pm
The Source TCK890
- 5 Dennis Ricke
St. Charles IL
312/ 377-4829 School Hours

Indiana

- 5 Stanley Boler
Knightstown IN
317/ 345-5663 M-F 5pm-11pm
- 4,5 Brenda Crenshaw
Shelbyville IN
317/ 264-1286 M-F 7am-5pm
317/ 398-0525 M-F 6pm-9pm;
S-S 9am-10pm
- 5 Irvin Haas
Carmel IN
317/ 848-0050 M-F 3:30pm-10pm;
S-S 10am-10pm

Maryland

- 5 Ron Jacobs
Laurel MD
301/ 498-0558 M-F 6pm-10pm
Sat 10am-10pm; Sun Noon-10pm
301/ 725-3228 M-F 8:30am-3pm
- 4 David Ottalini
Silver Springs MD
301/ 681-5792 M-F 6pm-9pm
Compuserve 72457,241
- 5,6 Ronald Romanowicz
Glencoe MD
301/ 472-4800 Daily 8am-4pm
301/ 472-2983 Daily 4pm-11pm
- 5 Michael Spurrier
Baltimore MD
301/ 298-0263 S-S 6pm-11pm
301/ 955-5938 11am-1pm School Days

Michigan

- 5 Dawn Andrews
Muskegon MI
616/ 755-4308 M-F 4pm-10pm
- 1,5 Jim Anker
Hazel Park MI
313/ 542-3910 M-F 9am-4pm
313/ 391-0033 M-F 6pm-10pm;
S-S 1pm-9pm
- 4 Joe Connelly
Livonia MI
313/ 421-8729 M-F 9am-9pm
NAUG BBS #21
- 5 Arthur Daniel
Warren MI
313/ 445-7142 M-Th 7am-4pm
313/ 445-7105 M-Th 7:30am-8pm;
F 7:30am-4pm
- 1 Mike Robinson
Royal Oak MI
313/ 585-5027 M-F 6pm-10pm;
S-S 10am-10pm
NAUG BBS #411
Michigan AppleGram 313/ 292-0389 #15
- 3 Pete Ross
Wayne MI
313/ 728-8720 ans w mach
- 1,4,5,6 Keith Zuuk
Grosse Ile MI
313/ 675-1550 Daily 8am-4pm

Minnesota

- 4,5 James Hirsch
Coon Rapids MN
612/ 755-8082 M-F 6pm-10pm
612/ 755-8220 M-F 7:30am-4pm
GEnie JHIRSCH

Missouri

- 1,2,3,4 Whit Crowley
Manchester MO
314/ 394-7955 M-F 6pm-9pm;
S-S 10am-6pm
Compuserve 70176,1167
- 5 Lynn Leopard
Chillicothe MO
816/ 646-0702 M-F 8am-8:30am, 2:30pm-3:30pm
816/ 646-4196 Daily 5pm-9pm

Montana

- 4,6 Steve Bernbaum
Shepard MT
406/373-6393 Daily 10am-11pm
- 5 Bob Shipek
Great Falls MT
406/ 791-2130 Daily 8am- 5pm
406/ 452-9104 Daily 9pm-Midnight
Compuserve 76067,3221

Nebraska

- 1,4,5,6 Larry B. McEwen
Hastings NE
402/ 463-1387 M-F 8am-4pm
402/ 463-2267 Daily 5pm-9pm
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GEnie L.MCEWEN

New Jersey

- 5 Pete Crosta
Nutley NJ
201/ 667-6369 M-F 3pm-10pm
201/ 667-2928 S-S 8am-10pm
201/ 266-4335 M-F 8:30am-3pm
NAUG BBS #230
Compuserve 70601,35
GEnie P.S.R.CROSTA
InCider #878
- 2,4 Edwin C. Doe
Pt. Pleasant NJ
201/ 528-6349 8am-11pm ans. serv. or
modem
GEnie E.DOE
201-528-6349
- 4 Matthew Jones
Neptune NJ
201/ 774-0983 M-F 6pm-8pm
- 5 Linda Nixon
Chatham NJ
201/ 635-0973 M-F 5pm-9pm;
S-S 11am-5pm
- 1 David Jay Scott
Wall NJ
201/ 681-0600 Daily 6pm-10pm

North Carolina

- 5 Terry W. Robertson
Charlotte NC
704/ 377-0111 M-F 8am-6pm
704/ 536-4261 Daily 7:30pm-10pm

New York

- 1,5 Bob Beer
Coram NY
516/ 928-6870 Daily 6pm-9pm
- 5 Cynthia Gillmore
Johnstown NY
518/ 762-8483 M-F 7am-5:30pm;
S-S 10am-10pm
518/ 725-4016 M-F 8am-4pm
518/ 661-6277 Summer, M-F 6pm-10pm
- 5 Sister Mary Gregory
Watertown NY
315/ 782-3460 M-F 3pm-9pm
315/ 788-4670 Daily 2pm-3pm
- 4,5 Don Menges
Rochester NY
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Codes

- 1 = Apple IIgs hardware
- 2 = Diversi Key
- 3 = SoftSwitch
- 4 = Telecommunications
- 5 = Educational Applications
- 6 = Custom Printing Effects

- 5 James Nicoll
Pittsford NY
716/ 546-6732 M-F 7:30am-2pm
716/ 381-9480 M-F 7pm-10pm;
S-S 10am-10pm
- 4 Walter Taylor
W. Henrietta NY
716/ 263-7700 ext. 269 M-F 8am-5pm
716/ 359-2857 Other
716-235-3698 Box 0070

Ohio

- 5 Mark Ball
Paris OH
216/ 862-3277 M-F 6pm-10pm
216/ 627-7606 M-F 8am-3pm
- 3 Jessie Beale-Hansen
Cinti OH
513/ 751-6834 M-F 7pm-10pm
513/ 241-6400 M-F 9am-11am;
3pm-5pm
- 4,5 William Beasley
N. Olmsted OH
216/ 777-7700 ext. 282 M-F 8am-4pm
216/ 933-4408 ans w mach
Compuserve 71106,574
- 4 Mark Elliot
Hudson OH
216/ 686-2280 M-F 9am-5pm
216/ 653-5006 S-S 6pm-11pm
GEnie G.ELLIOT
- 1,4,5,6 Guy R. Moore
Oxford OH
513/ 746-6333 M-F 9am-4pm
513/ 529-7584 M-F 8am-4pm
513/ 523-3797 Daily 7pm-10:30pm
- 4,5 Howard Moskowitz
Toledo OH
419/ 729-8412 M-F 8am-4:30pm
419/ 535-8647 M-F 5pm-10pm;
S-S 10am-10pm
CompuServe 73547,337
- 4,5 Patricia Ritchey
Bowling Green OH
419/ 372-7038 M-F 8am-4pm
419/ 673-0040 M-F 7pm-10pm;
S-S 10am-10pm

Oregon

- 1,5,3 Jim Emig
Portland OR
503/ 280-5666 M-F 7am-4pm
503/ 771-1916 M-F 6pm-9pm;
S-S 10am-10pm

Applications/Apple IIgs

Pennsylvania

- 4 Larry Beatty
Hopwood PA
412/ 439-4912 Daily 9am-10pm
- 4,5 Martin Friedman
Philadelphia PA
215/ 473-6135 M-S 3pm-10pm
NAUG BBS #45
Compuserve 76676,1057

Texas

- 4 Joseph Kline
Lubbock TX
806/ 796-0829 Daily 8am-9pm
- 4,5 Ralph Logan, Jr.
Fort Worth TX
817/ 281-0661 TThF 2pm-5pm
GENIE R.LOGAN2
Fort Worth STARTEXT 50411

Vermont

- 5 Lars Baris
Essex Jct. VT
802/ 878-1392 Daily 7am-2pm

Virginia

- 5 H. Joseph Dobrowski
Langley AFB VA
804/ 865-7520 T-Th 7pm-9pm
- 4,5 Warren Downes
Yorktown VA
804/ 898-8386 M-F Noon-4pm
804/ 898-1881 M-F 4pm-10pm;
Sat Noon-10pm
- 4 William W. Sanderson
Merrifield VA
703/ 352-1568 M-F 6pm-10pm
703/ 820-8550 Daily Noon-1pm

Wisconsin

- 5 Neil Johnson
Eau Claire WI
715/ 834-8104 M-F 8am-3:45pm

Diversi-Key and SoftSwitch

These programs are popular utilities for owners of Apple IIgs computers.

Diversi-Key is a macro program for the IIgs that works with text-based programs, including AppleWorks. Price: \$45. DSR Research, 34880 Bunker Hill, Farmington, MI 48331, (313) 553-9460.

SoftSwitch lets IIgs users with expanded memory switch between four programs without quitting the applications. Price: \$59.95. Roger Wagner Publishing, 1050 Pioneer Way, Suite #P, El Cajon, CA 92020, (619) 442-0522.

Electronic Index Disk Update

The list to the right contains the August 1988 update for NAUG's Electronic Index Disk. The first section contains the data for the file "Forum Index". The second section contains the data for the file "Key Words". Directions for updating the Index Disk appeared in the February 1988 *AppleWorks Forum*.

NAUG updates the Electronic Index Disk monthly. The latest version can be ordered from the NAUG Public Domain Library (\$4 per disk; \$2 postage per order). Current updates can also be downloaded from the NAUG bulletin board, (313) 482-8090.

Electronic Index Disk August 1988 Update

Enter the standard values for these categories: Volume #: 3 • Issue #: 8 • Date: Aug 88

Enter the rest of the data in the order: TYPE • PAGE • TITLE • AUTHOR • KEY WORDS

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- Letters to NAUG • 3 • Recovering Files Converted to DOS 3.3 • Melpignano, Richard • DOS 3.3; Copy II+; Pro-DOS; file conversions
- Letters to NAUG • 3 • Patch to Change AppleWorks' Cursor • Hirsch, James • AppleWorks; patches
- Letters to NAUG • 3 • NAUG as Peace Maker • Simonsen, Jon • Beagle Bros; NAUG
- Letters to NAUG • 4 • Using 3.5-inch Disks with AppleWorks • Kashmarek, Ken • 3.5-inch drives; Copy II+; AppleWorks
- Letters to NAUG • 4 • Booting from a Hard Disk • Holkeboer, Carl • hard disks; autoboot; RamUp
- Letters to NAUG • 5 • Patch to Improve Foreign Language Screen • Muntz, Mark • patches; foreign characters
- AppleWorks Update • 7 • Claris Releases Free Update to AppleWorks • Williams, Warren • AppleWorks; Version 2.1; updates; special offers
- AppleWorks Update • 8 • What You Need with AppleWorks 2.1 • Williams, Warren • AppleWorks; Version 2.1; updates; add-ons
- Advanced Techniques • 10 • Special Printing Effects from Dot Matrix Printers • Marriott, William • ImageWriter II; printing effects; Mousetext; word processor
- Advanced Techniques • 12 • Be Sure Not to Confuse AppleWorks; How to Debug Custom Printer Effects • Marriott, William • printing effects; troubleshooting
- AppleWorks Add-Ons • 17 • Hints for Using SuperFonts • Shanker, Bruce • SuperFonts; printing effects
- Quick Tip • 18 • How to Get the First Line to Print Properly • Ward, Ron • printing
- Word Processor Tip • 20 • How to Prepare Lists for the Word Processor • Williams, Warren • word processor; sorting; tabs
- Word Processor Tip • 21 • How to Use the Clipboard to Save Keystrokes • Merritt, Cathleen • clipboard; macros; word processor; superscript; subscript
- Word Processor Tip • 21 • Clipboard Limitations • Merritt, Cathleen • modifications; clipboard; Applied Engineering
- Macro Tips • 23 • An Autoload Macro for TimeOut • Munz, Mark • macros; autoload; TimeOut; Beagle Bros; UltraMacros
- Public Domain Update • 24 • Footnotes in the AppleWorks Word Processor • Hecker, Stan • footnotes; word processor; macros; Public Domain; UltraMacros; AutoWorks
- Disk Rescuers • 26 • How to Get Help Recovering Damaged Disks • n/a • recovering data; special programs; damaged files
- Add-On Updates • 27 • Beagle Bros Adds Paint Module to TimeOut Series • n/a • Beagle Bros; TimeOut; SuperFonts; Graph; Paint; upgrades
- Add-On Updates • 27 • New Accessories and Software from Applied Engineering • n/a • Applied Engineering; DataLink; RamKeeper; SlotMover;
- Members Helping Members • 29 • How to Get Help with AppleWorks Applications and Apple IIgs Questions • Marriott, William • Members Helping Members; Special Programs; Apple IIgs

NEW KEYWORDS: Version 2.1; AppleWorks GS; DataLink; SlotMover

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NAUG shares members' addresses with other user groups and selected vendors. If you do NOT want to receive mail from these agencies, please check here: ☐

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New Public Domain Catalog

NAUG recently updated the Public Domain catalog to include many new AppleWorks templates, utilities, and enhancements.

The 1988/89 edition of NAUG's Public Domain Catalog includes 24 pages listing templates and programs for school, business, home, and libraries. New additions to the catalog include the Data Base Repair Kit, dozens of Apple IIGs and Super-Fonts Fonts, a payroll system for small businesses, and a set of macros that add automatic footing capabilities to AppleWorks.

The catalog costs \$4, and includes a rebate coupon worth \$2 off your first order.

For your copy of the new catalog, send \$4 and your name and address to **NAUG**.

Seminar Schedule

NAUG sponsors AppleWorks seminars in various locations throughout the country. These seminars, entitled "AppleWorks: Beyond the Basics", are intended for AppleWorks users who want to solve AppleWorks problems and learn new techniques.

Seminar schedule:

July 30 — San Diego, CA
August 6 — Los Angeles, CA
August 13 — San Francisco/Oakland, CA
August 20 — Sacramento, CA

The presenters, Dr. Warren Williams and Oliver Roosevelt, are technical advisors to NAUG and frequent contributors to the **AppleWorks Forum**. Write or call NAUG for more information.